



Hurricane Harvey 2017 9/3/2017 – 0800 CDT Update

ARKEMA FIRE

Throughout the reporting period, white smoke was observed emanating from the facility. Both ASPECT and the local Sheriff's flight crew conducted aerial reconnaissance operations equipped with infrared cameras and observed heavy white smoke and yellow liquid originating from several trailers on-site. Air monitoring readings outside of the exclusion zone for the contaminants of concern were equivalent to background readings during the smoking events. A 1.5-mile evacuation radius remains in place and access to the facility is still considered unsafe.

BEAUMONT/PORT ARTHUR

TCEQ is sending four teams to survey the Beaumont area. Water pressure in the city of Beaumont water system is increasing; however, due to the previous low pressure in the system the city continues to be under a boil water notice.

On September 2, 2017, the TCEQ received the following status update from the City of Beaumont:

The groundwater plant remains off-line due to flooding conditions. The surface water treatment plant (SWP) is producing 20 million gallons per day (MGD). Water is being sent to limited sections of distribution at this time due to the inability to maintain pressure in the distribution system. Operators are slowly opening main distribution lines and determine where pressure is being lost so repairs can be made. This will be a slow, methodical process to bring the entire system up to desired pressure.

The raw water pumps are out, and are estimated to remain out of service for 2-3 weeks. Crews are currently on-site installing additional pipe and installing additional pumps to bring raw water directly from the Neches River into the plant. The estimated demand will be above the plant capacity of 20 MGD. It is estimated that the full capacity will take longer to determine due to leaks in the distribution system. The elevated storage tanks and groundwater tanks are mostly full. The City of Beaumont will be on a boil water notice when it goes on-line.

Several reports of wildlife mortality came in to Unified Command: one small whale near Port

Arthur and three dead pelicans were found in Port Aransas. Wildlife mortality was documented using Texas Parks and Wildlife's Department's Fish Kill and Injured/Oiled Wildlife Form.

FIELD RESPONSE ACTIVITIES

CORPUS CHRISTI

In the Corpus Branch, the Orphan Container Recovery Group conducted orphan container recovery in Port Aransas. Containers which have been displaced and are leaking as a result of the hurricane are being identified and recovered.

The Water Infrastructure Assessment Group consists of four teams who are conducting assessments for both Drinking Water and Waste Water Facilities. Teams are prioritizing facilities, and conducting evaluation of these facilities.

The Hazard Evaluation Group consists of two teams performing orphan container hazard evaluation. Teams are prioritizing Rapid Needs Assessment Targets and conducting evaluation of the targets.

The Oil Discharge Assessment Group consists of 5 teams. Three ER Teams respond to reports of active pollution discharges and conduct patrols as tasked. There are two Oil Discharge Assessment Teams conducting assessments and responding to spills from Port Aransas to Corpus Christi and from Fulton to Ingleside. All teams are conducting hazard evaluation and damage assessment, and collecting information on damaged and sunken vessels.

There is also a Staging Group that is receiving, processing, categorizing, bulking and disposing of any and hazardous containers.

EPA's aerial reconnaissance aircraft is assessing public water supplies, wastewater treatment facilities, Risk Management Plan (RMP) and Facility Response Plan (FRP) facilities for damage and immediate ongoing releases.

EPA personnel deployments to Austin, Beaumont-Port Arthur, Houston and Corpus Christi will continue throughout the weekend. Personnel will be supporting the Unified Command teams that are identifying and evaluating impacts of the hurricane and floods, as well as coordinating with TCEQ to assist with priority drinking and waste water assessments. EPA is working with TCEQ to issue a statement on the hazards of floodwaters. Assisting drinking water and waste water facilities in maintaining and/or resuming their operational status remains a high priority.

On September 2, 2017, the EPA Liaison Officer met with the Nueces County Emergency Management Coordinator and Deputy Coordinator at the Nueces County EOC. The Coordinator did not feel that there were any environmental concerns they would need assistance with, but appreciated EPA reaching out to them. Their contractor will be starting vegetation debris pickup next week which should last about 4-6 days. The Coordinator did ask if EPA could echo any of their social media and media information about the debris pickup to assist in a widespread dissemination of their information.

At approximately 1030, a Port Assessment Team received a report of a gas well leak at 9 Mile

Point. The Oil Discharge Assessment Team 2 responded, identified the well, and did not find it to be leaking.

The Oil Discharge Assessment Team 1 observed an ongoing release of natural gas at the TR Offshore LLC's South Mustang Separation Facility. The team notified the responsible party and logged the incident using the NDOW form.

HOUSTON

The Orphan Container Hazard Evaluation Group consists of 7 teams. Team compositions include personnel from the EPA, USCG, TCEQ, TGLO, and CTEH. The group's primary purpose is to conduct orphan container hazard evaluation throughout Branch Bravo's geographical area.

The spill report Investigation Group consists of one team. The team composition is currently two EPA members. The group's primary purpose is to investigate any NRC reports within the Branch Bravo's geographical area.

The Oil Discharge Assessment Group consists of 5 teams. Each team has three members and includes personnel from the EPA, USCG, TCEQ, and CTEH. The group's primary purpose is to conduct oil discharge assessments throughout Branch Bravo's geographical area.

The Orphan Container Recovery Group consists of 2 teams. Each team has three members and includes personnel from USCG, TCEQ, and an OSRO. The group's primary purpose is to conduct orphan container recovery throughout Branch Bravo's geographic area.

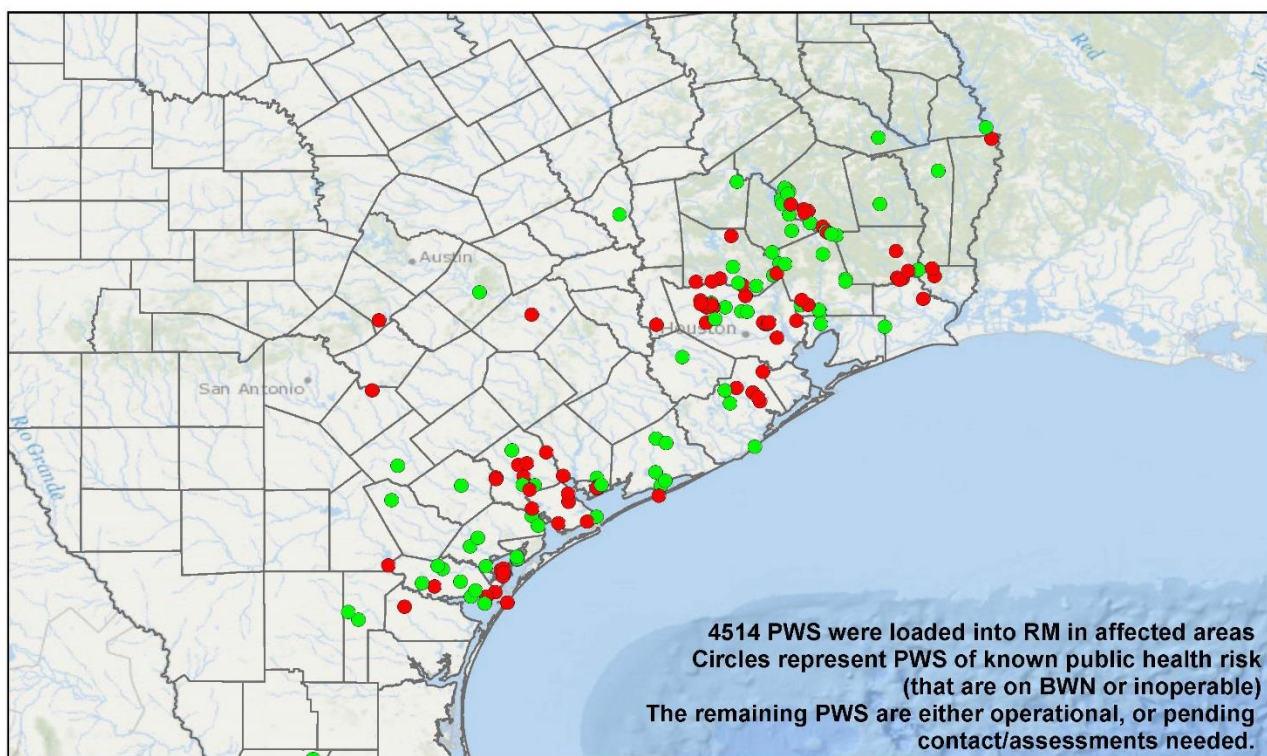
SPILL/RELEASE RESPONSE

Hotline Calls as of September 3, 2017	
Number of Harvey Related Calls Received During Reporting Period 1300-0100	9
Total Number of Harvey Related Calls to Date	129
* EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

DRINKING WATER / WASTEWATER ASSESSMENTS

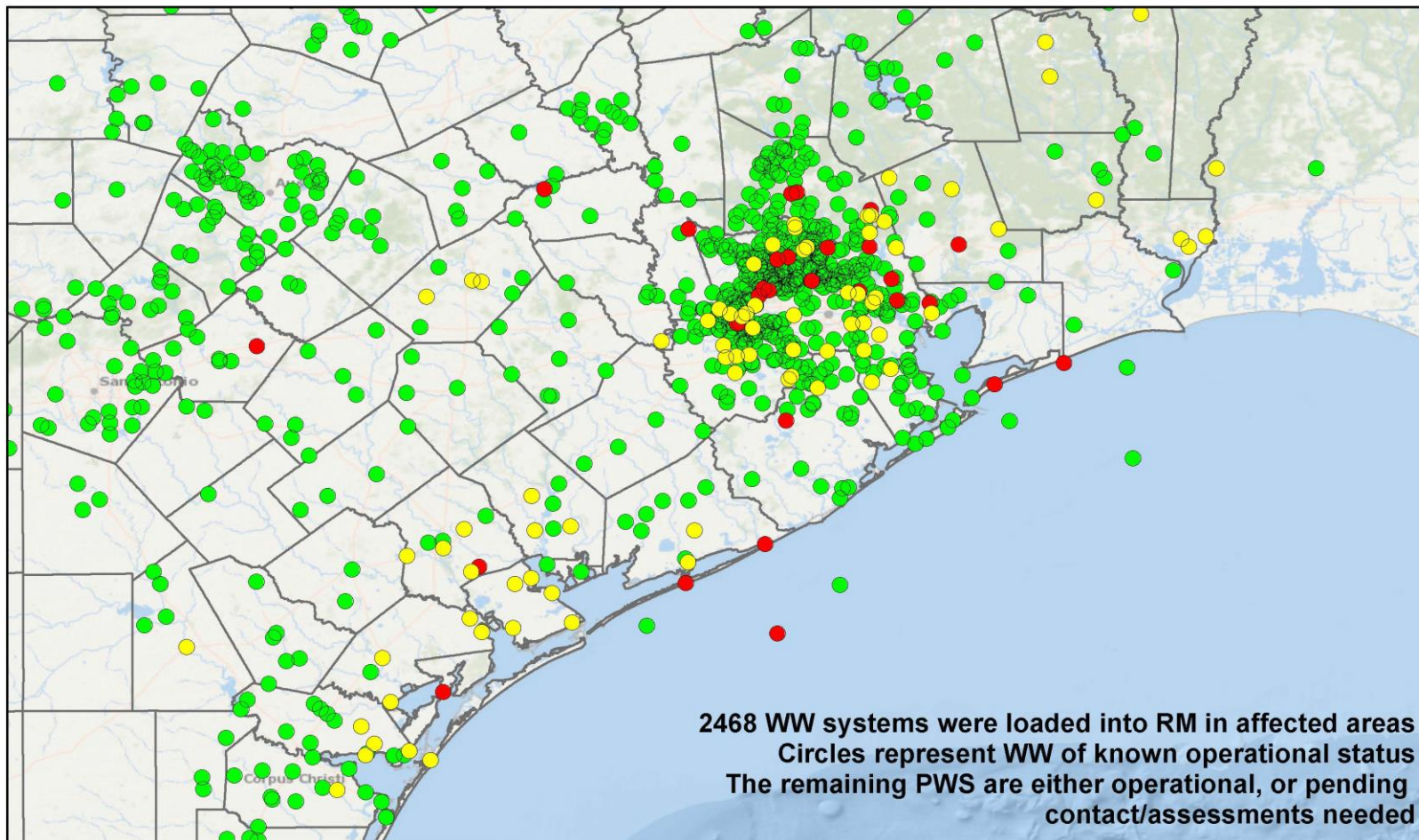
EPA continues to support TCEQ in contacting drinking water and waste water systems. EPA deployed 10 personnel to assist TCEQ's Drinking Water and Waste Water Phone Bank located in Austin.

DRINKING WATER AND WASTE WATER FACILITIES STATUS SUMMARY TABLE		
STATUS	DW	WW
Not Contacted	2145	384
Contact Attempted (Unreachable)	192	179
Total Not Contacted	2337	563
Total Systems In Database	4514	2468
Percent Systems Not Contacted	51%	22%



Legend ● Boiled Water Notice (137) ● Water Outage (113)		Population Served 250,253 368,035		US EPA Region 6 Hurricane Harvey Response Drinking Water Status Map in Hurricane Harvey Affected Areas 09/02/2017 - 1400		 For Official Use Only Printed via Web	 EPA GIS Printed: 4:26:49 PM 9/2/2017
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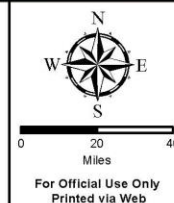
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Legend

- No Problems (1781)
- Partially Operational or Affected (88)
- Not Operational Or Destroyed (35)

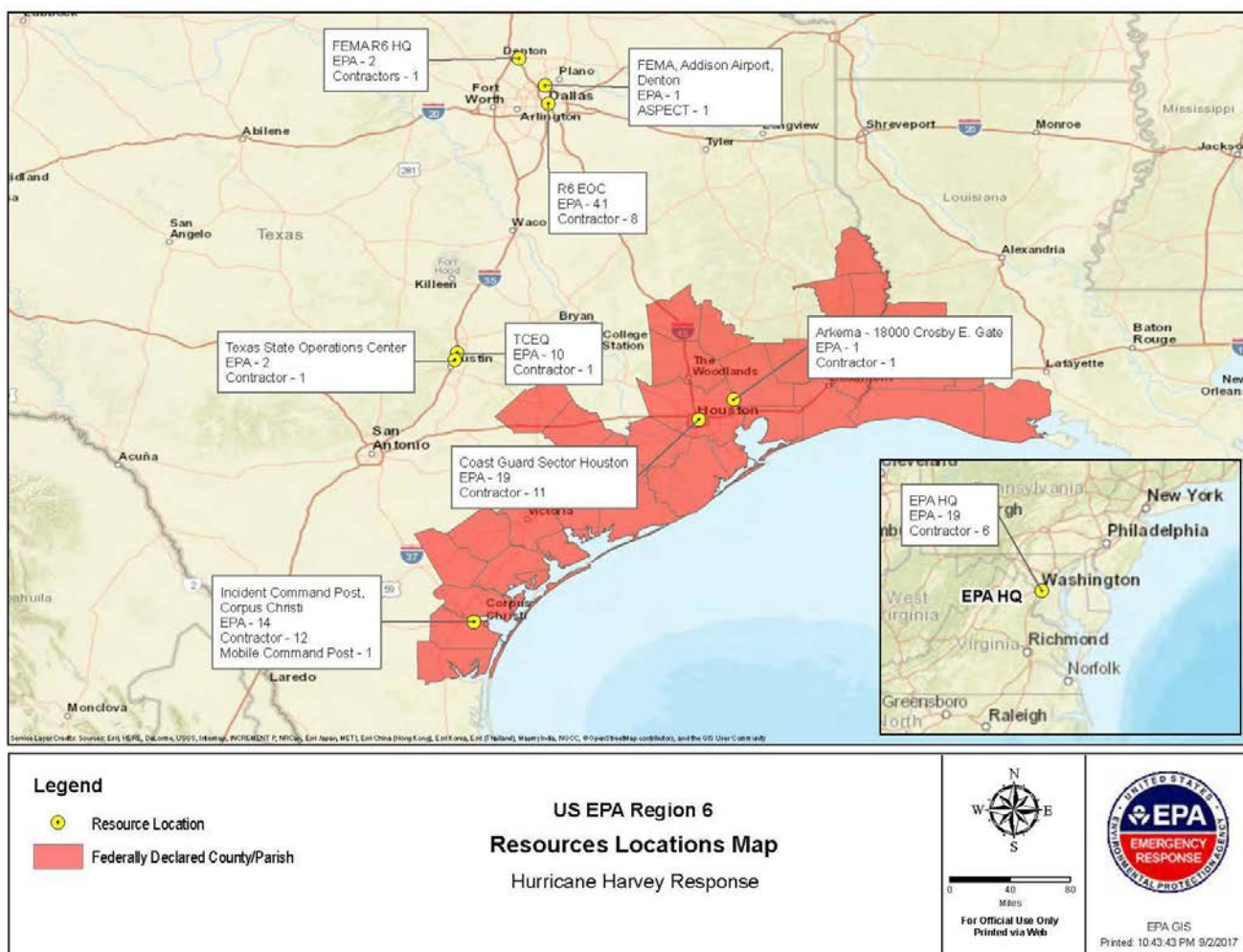
US EPA Region 6
Hurricane Harvey Response
**Wastewater Status Map in Hurricane
Harvey Affected Areas**
09/02/2017 - 1900



EPA GIS
Printed: 9:53:14 PM 9/2/2017

EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	HQ EOC Wash DC	Totals
EPA	41	1	2	10	19	14	19	106
START	7		1	1	11	6		26
ERRS						6		6
Other Contractors	1						6	7
TOTAL	49	1	3	11	30	26	25	145



FUNDING
SEPTEMBER 1, 2017

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate
Non Mission Assignment	N/A		\$64,200.00	\$0.00	
MA 4332DR-TX-EPA-01	\$20,000.00	\$17,654.00	\$0.00	\$17,654.00	
MA 4332DR-TX-EPA-03	\$8,592,000.00	\$7,584,077.00	\$1,759,127.00	\$5,824,950.00	\$90,233.84*
Totals:	\$8,612,000.00	\$7,601,731.00		\$7,601,731.00	

*Burn rate does not include daily ERRS amounts, not yet received. The burn does include START & ASPECT

REFINERIES/FUEL WAIVERS

Per the National Protection and Programs Directorate Office of Cyber and Infrastructure Analysis (OCIA), closures of refineries occurred since August 30, 2017, but refineries in Corpus Christi, Texas (TX) are starting the process to re-open. These refineries do not provide gasoline to the Colonial Pipeline system. Gasoline prices continue to increase.

The Department of Energy authorized the Strategic Petroleum Reserve (SPR) to negotiate and execute an emergency exchange agreement with the Phillips 66 Lake Charles Refinery. This decision will authorize 200,000 barrels of sweet crude oil and 300,000 barrels of sour crude oil to be drawn down from SPR's West Hackberry, Louisiana (LA) site and delivered via pipeline to the Phillips 66 refinery.

Four No Action Assurance (NAA) letters were signed by EPA on September 1, 2017, to help address fuel shortages. Of the 17 refineries along the Texas coast, as of September 1, only 6 have returned to partial operation due to Hurricane Harvey. The following NAAs will help expedite the distribution of existing gasoline supplies in both Texas and Louisiana while the refineries work to re-start and resume normal operations. For each NAA, EPA will exercise discretion not to pursue enforcement for violations of the regulations identified in the NAAs. Each NAA is effective for two weeks, or September 15. It is anticipated that these NAAs will allow for the immediate distribution in Texas of 10 million or more gallons of gasoline to consumers.

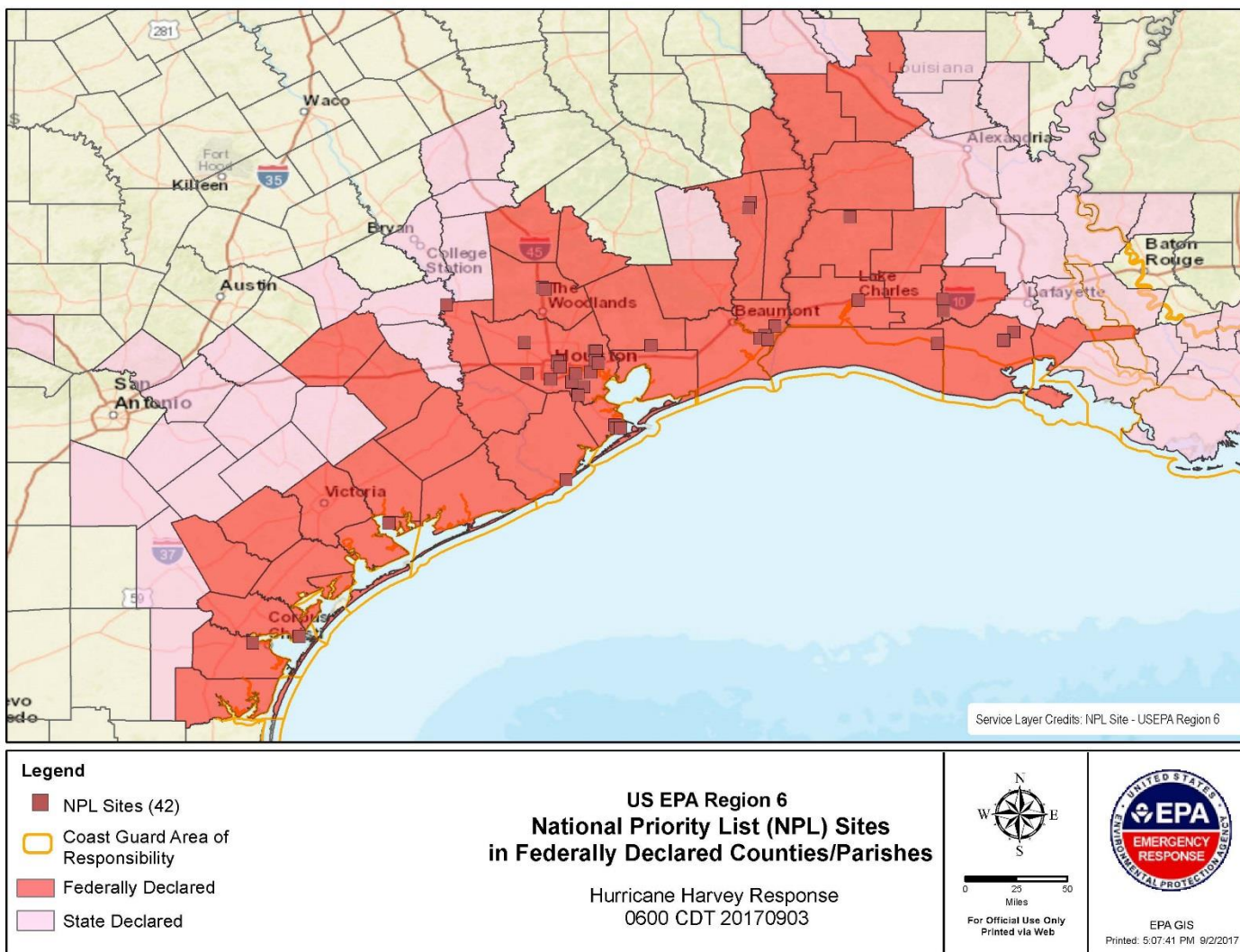
Texas NAA for Vapor Recovery Systems: Several federal regulations and the Texas State Implementation Plan (SIP) require that bulk gasoline, marine, and rail loading terminals operate a vapor control system to collect the fuel vapors displaced from tank trucks during product loading. This NAA allows the loading and unloading of fuel at terminals that have damaged or inoperable vapor recovery devices or that are otherwise not equipped with such devices.

Texas NAA for Truck Loading at Petroleum Distribution Terminals: Several federal regulations and the Texas SIP require that gasoline tank trucks obtain testing and certification that the tank trucks are vapor tight. This NAA allows tank trucks to load and unload fuel at terminals even though the trucks may not be registered with the terminals as having completed all the testing for tank tightness or have the documentation on hand to prove it.

Texas NAA for Roof Landings at Gasoline Storage Vessels: This relates to several federal regulations and the Texas SIP covering storage vessels with external floating roofs. Specifically, when the operator removes product from the vessel such that the roof lands on the vessel's legs, such action must be a continuous motion, i.e. the process of re-filling the vessel must begin immediately after roof landing. This NAA will allow roof landings without requiring immediate re-filling of the vessel.

Louisiana NAA for Truck Loading at Petroleum Distribution Terminals: Several federal regulations and the Louisiana SIP require that gasoline tank trucks obtain testing and certification that the tank trucks are vapor tight. This NAA allows tank trucks to load and unload fuel at terminals even though the trucks may not be registered with the terminals as having completed all the testing for tank tightness or have the documentation on hand to prove it.

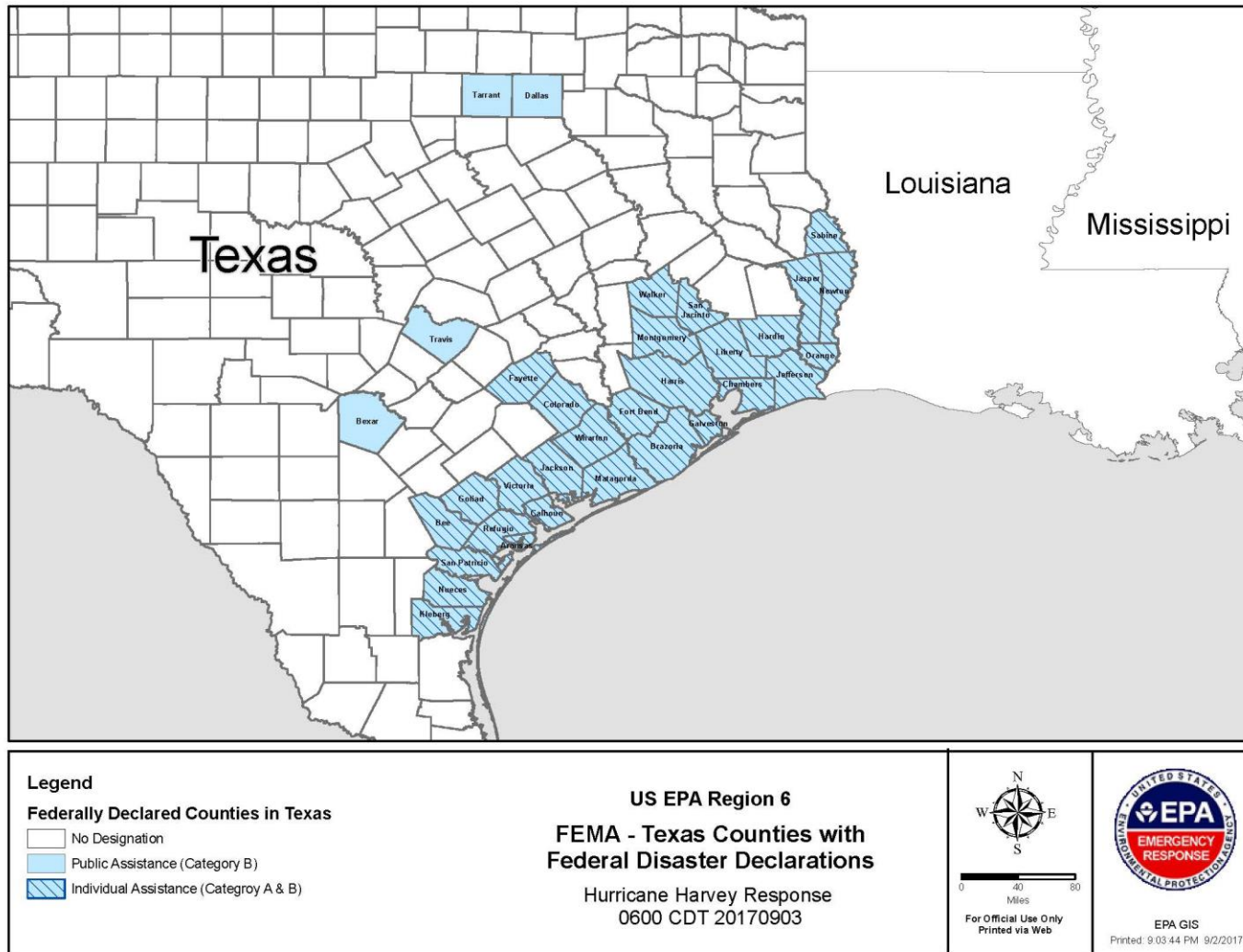
SUPERFUND NPL SITES



SUPERFUND NPL SITES (Continued)

Superfund Sites within Federally Declared Counties					
Hurricane Harvey Rapid Response Assessment	Phase 1	Phase 2		Phase 3	All Phases Completed
	Rapid Response Assessment	Site Inspection Needed	Inspected	Additional Response Action	
TEXAS					
SITE NAME					
ALCOA (Point Comfort) / LAVACA BAY	8/29/17	No			8/29/2017
BAILEY WASTE DISPOSAL	9/1/17	Yes			
BRINE SERVICE CO.	8/30/17	Yes	8/30/17	No	8/30/2017
BRIO REFINING INC.	9/1/17	No			9/1/17
CONROE CREOSOTING COMPANY	9/1/17	No			9/1/17
CRYSTAL CHEMICAL CO.	8/30/17	No			8/30/17
DIXIE OIL PROCESSORS INC.	9/1/17	No			9/1/17
FALCON REFINERY	8/31/17	Yes	8/30/17	No	8/30/2017
FRENCH, LTD.	9/1/17	Yes			
GENEVA INDUSTRIES / FUHRMANN ENERGY	9/1/17	Yes			
GULFCO MARINE MAINTENANCE	9/1/17	Yes			
HARRIS (FARLEY STREET)	9/1/17	No			9/1/17
HART CREOSOTING	9/1/17	No			9/1/17
HIGHLANDS ACID PIT	9/1/17	Yes			
JASPER CREOSOTING	9/1/17	No			9/1/17
JONES ROAD GROUNDWATER PLUME	8/29/17	No			08/29/17
MALONE SERVICES COMPANY	9/1/17	Yes			
MANY DIVERSIFIED INTERESTS, INC	9/1/17	No			9/1/17
MOTCO, INC.	8/31/17	No			8/31/2017
NORTH CAVALCADE STREET	8/29/17	No			08/29/17
PALMER BARGE LINE	9/1/17	No			9/1/17
PATRICK BAYOU	9/1/17	Yes			
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)	9/1/17	Yes			
SAN JACINTO RIVER WASTE PITS	9/1/17	Yes			
SIKES DISPOSAL PITS	8/29/17	No			08/29/17
SOL LYNN / INDUSTRIAL TRANSFORMERS	8/29/17	No			08/29/17
SOUTH CAVALCADE STREET	8/29/17	No			08/29/17
STAR LAKE CANAL	8/30/17	No			8/30/2017
STATE MARINE OF PORT ARTHUR	9/1/17	No			9/1/17
TEX-TIN CORP.	9/1/17	No			9/1/17
TRIANGLE CHEMICAL COMPANY	9/1/17	Yes			
UNITED CREOSOTING CO.	9/1/17	No			9/1/17
US OIL RECOVERY	9/1/17	Yes			
LOUISIANA					
AMERICAN CREOSOTE DERIDDER	09/01/17	No			9/1/17
D.L. MUD, INC.	08/29/17	No			08/29/17
EVR-WOOD TREATING/EVANGELINE REFINING COMPANY	09/01/17	No			9/1/2017
GULF COAST VACUUM SERVICES	08/29/17	No			08/29/17
GULF STATE UTILITIES (North Ryan Street)	08/31/17	No			8/31/2017
MALLARD BAY LANDING BULK PLANT	08/29/17	No			08/29/17
PAB OIL & CHEMICAL SERVICE	08/29/17	No			08/29/17
SBA SHIPYARD	09/01/17	No			9/1/17
Status Summary					
Rapid Response Assessment Completed	41				
Sites with no further action	28				
Sites in Phase 2	13				

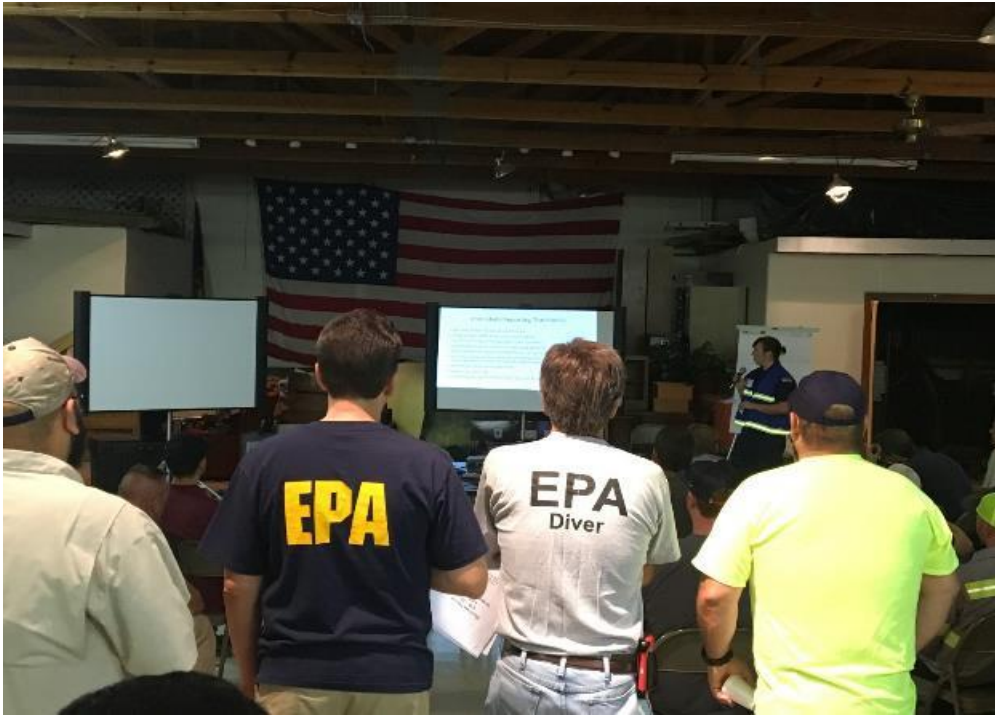
FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



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PHOTOS

Command and General Staff Meeting on September 2, 2017.



USCG and EPA Members discussing operations.



PHOTOS

OSC in Alpha Branch performing a field assessment.



PHOTOS

TCEQ/EPA/TGLO Recon flight over Rockport/Fulton on Sep 1st, 2017.



PHOTOS

TCEQ/EPA/TGLO Recon flight over Rockport/Fulton on Sep 1st, 2017.

